

USER GUIDE

12V MINICB

12V MINI CONTROL BOX



iTECHWORLD
THE POWER EXPERT

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OVERVIEW

Simplify your 12V power management with the iTechworld Mini Control Box. Designed and developed in Australia for versatility and ease of use, this compact unit allows you to connect and operate multiple devices effortlessly.

It connects to a power source such as an iTechworld lithium battery via the input 50A Anderson plug, delivering reliable power to your connected devices. The additional twin in/out 50A Anderson plugs allow for a seamless connection to accessories such as portable fridge freezers, lights, and more, while also functioning as an input for charging your power source. With the pre-wired connections, the mini control box ensures minimal setup time and maximum convenience, allowing for more time spent exploring the Australian outback!

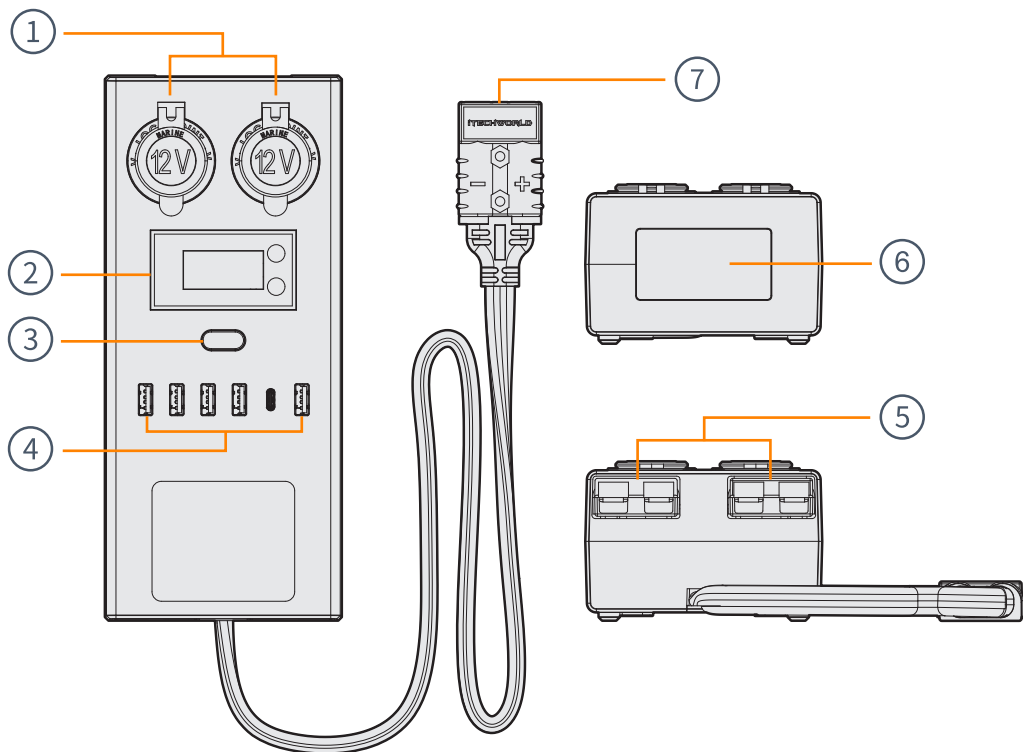
KEY FEATURES

- Battery monitor
- 2 x 12V 15A cigarette lighter outputs
- 5 x USB outputs
- 30W USB-C output
- 2 x In/Out 50A Anderson plugs
- Various output fuses
- Tough ABS material

Package Contents

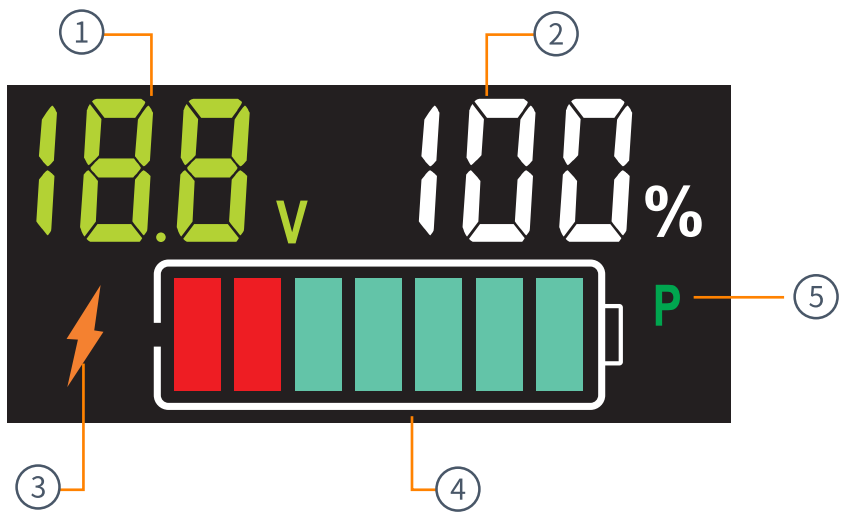
	
1x Mini Control Box	User Guide

UNIT DIAGRAM



- | | |
|-----------------------------|---------------------------|
| ① CIGARETTE LIGHTER OUTPUTS | ⑤ IN/OUT 50A ANDERSONS |
| ② BATTERY MONITOR | ⑥ LED LIGHT |
| ③ LIGHT CONTROL | ⑦ INPUT 50A ANDERSON PLUG |
| ④ USB/USB-C OUTPUTS | |

DISPLAY PANEL



- | | |
|--------------|-------------------|
| ① VOLTAGE | ④ STATE OF CHARGE |
| ② PERCENTAGE | ⑤ BATTERY TYPE |
| ③ ALARM | |

OPTIONAL ACCESSORIES

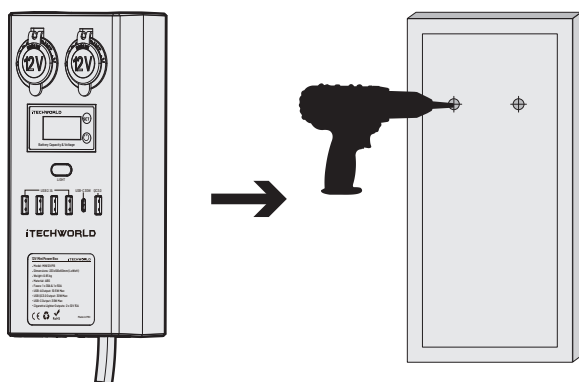


50 Amp Anderson to Eyelets

OPERATION

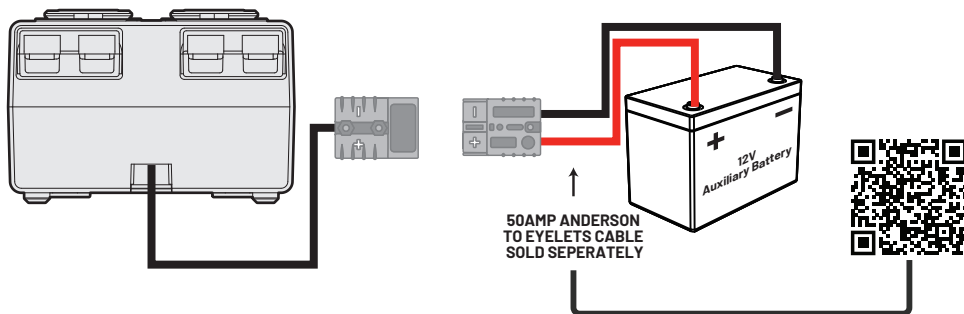
INSTALLATION

1. Choose a flat and stable surface for installation, ensuring the unit can easily be accessed.
2. Position and level the unit, then drill holes in your mounting surface.
3. Secure the unit using 2 x M4 screws, tightening the screws with a manual screwdriver, being sure not to over tighten.



BATTERY CONNECTION

1. Connect a 12V power supply via the input 50A Anderson.



2. Once connected, turn on the 12V power supply, then the light button will illuminate when input power is detected.

BATTERY MONITOR & SETUP

Lithium:

1. Enter the settings screen by pressing and holding the SET button.
2. Press the SET button three times, until the display shows three yellow zeros on the left and three white zeros on the right.
3. To adjust the left-hand (yellow) value, press the Power button to increase the number. Once you've set the desired number, press and hold the Power button for 2 seconds to move to the next column.
4. Set the left-hand (yellow) number to 10.5, then move to the right-hand (white) value and set it to 13.5. These values let the monitor know the 0% and 100% voltage of the battery.
5. Press the SET button twice to save the previous inputs and cycle across to the 5 - b interface for backlight settings, you can use the power button to cycle between ON and OFF.

ON: The backlight will turn off after 10 seconds of inactivity.

OFF: The backlight will stay on.

6. Once the backlight settings have been confirmed, press the SET button twice to access the Lo interface for the low % alarm settings. Adjust the % value you would like an audible alarm to play, using the same method you used in step 3. Once the desired % is set, press the SET button twice again to access the option to enable or disable the low % alarm entirely.
7. When all the settings are set, press and hold the SET button to save your changes and return to the main menu.

Note: If users don't set up the low % alarm, the monitor will automatically alarm by default when showing less than 10%.

Lead Acid:

If you are using a lead acid battery, you would follow a similar process, just remove step 2, and input your battery voltage into the 1-P interface, which will automatically populate the rest of your settings to suit a lead acid battery.

Note: if you have issues with this step, you can copy the Lithium steps above, adjusting the voltages in step 4, you will have to contact your batteries manufacturer for a 0% voltage and 100% voltage.

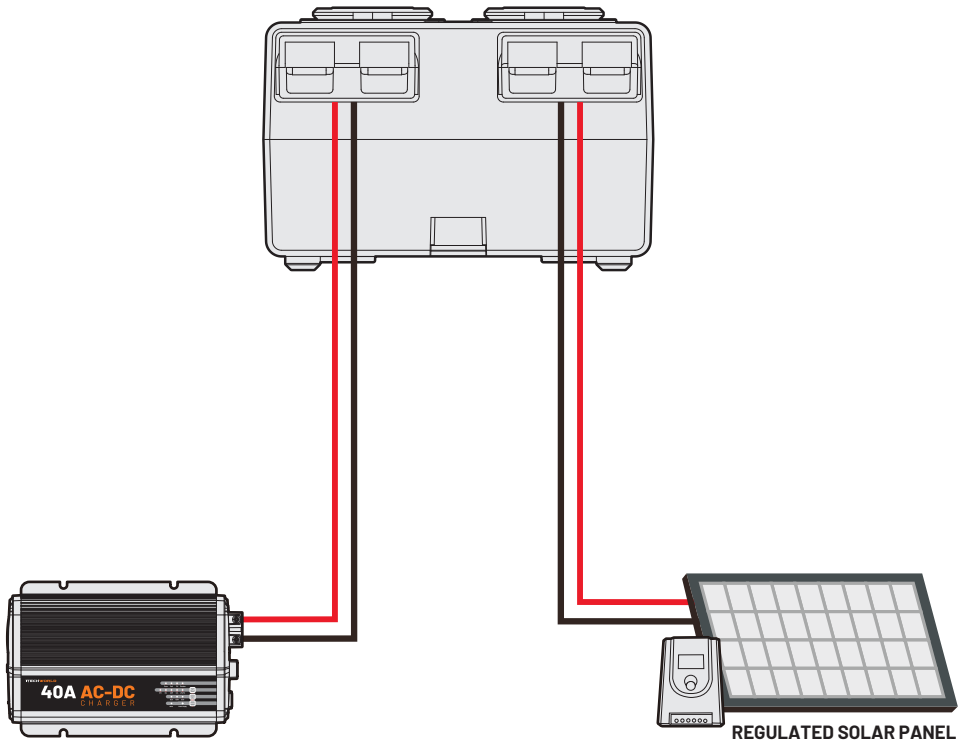
CONNECTING CHARGERS

The Mini Control Box is able to be recharged through various ports:

- Connecting an AC charger to any of the in/out Anderson plugs.
- Connecting a solar panel with a regulator to any of the in/out Anderson plugs.

Do not connect an unregulated solar panel directly to the battery via any of the in/out Anderson plugs. If your solar panel is fitted with a built-in regulator, you can connect it using any of the in/out Anderson plugs.

WARNING: Do not exceed 50 amps.



SPECIFICATIONS

Mini Control Box	
Model	12VMINICB
Dimensions (LxWxH)	233 x 100 x 60mm
Weight	850g
Outputs	2 x 12V 15A cigarette lighter outputs, USB-C output, 5 x USB outputs
Inputs/Outputs	2 x 50A Anderson plugs
Operating Temperature	-10°C to 45°C
Battery Input Voltage	10V - 15V

Battery Monitor	
Battery Input Voltage	8V - 40V
Operating Current	≤15 mA
Display	LCD
Precision	±1%

SAFETY PRECAUTIONS

The Mini Control Box must be installed and operated correctly for safe operation and optimal performance. Please carefully read, understand and follow all instructions and guidelines in this user guide. Failure to follow these instructions may result in damage to the unit or property, death or serious injury.

Disclaimer: While iTechworld has taken every precaution to ensure the accuracy of the contents of this user guide, iTechworld assumes no responsibility for any errors or omissions.

Furthermore, all specifications and functionality may change at any time without notice.

It is best to view our website for the most up-to date information

WARNING:

Do not allow any metal objects to enter one of the ports.

WARNING:

Never insert anything other than a compatible adapter into any of the ports on the control box.

WARNING:

People with physical disabilities, visual, sensory, or mental impairments (including children) should not use this device. Children should be supervised to ensure they do not play with the device.

WARNING:

Do not drop your control box.

WARNING:

Ensure the control box does not come into contact with water, rain or snow. Failure to do so may lead to permanent damage to the internal electronics and will void the warranty.

WARNING:

Do not use your control box to connect equipment if there is a defect.

DANGER:

Do not disassemble or modify the control box doing so may result in a risk of electrical shock, fire death, or serious injury.

LIMITATIONS OF USE:

Do not use in connection with life support systems or other medical devices.

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When it comes to energy storage and creation at iTechworld, we take pride in being one of the biggest names in the industry. Based in Australia, we are a family-owned and operated business. With many more innovative products on the horizon we are committed to constantly raising the bar to provide bigger and better benefits to all our customers Australia-wide.

Whether you're an avid camper, 4WD enthusiast, freedom seeker or camper, we've got your power needs covered. Escape the grid without compromise, minimise your downtime and travel with comfort with our large range of leading products at great prices.

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